

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000031

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' G01N27/409, G01N27/41, G01N27/419, G01N27/416

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' G01N27/409, G01N27/41, G01N27/419, G01N27/416

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2003-194764 A (NGK Spark Plug Co., Ltd.), 09 July, 2003 (09.07.03), Par. Nos. [0028], [0032]; Fig. 2 (Family: none)	1, 2, 7
A	JP 4-2959 A (Toyota Motor Corp.), 07 January, 1992 (07.01.92), Fig. 1 (Family: none)	1-10
A	DE 19703458 A1 (Denso Corp.), 31 July, 1997 (31.07.97), Fig. 18 & JP 9-210953 A & JP 9-269312 A & US 6258234 B1	1-10

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "&" document member of the same patent family

Date of the actual completion of the international search
04 April, 2005 (04.04.05)Date of mailing of the international search report
26 April, 2005 (26.04.05)Name and mailing address of the ISA/
Japanese Patent Office

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2000-81412 A (NGK Spark Plug Co., Ltd.), 21 March, 2000 (21.03.00), Full text; Figs. 1 to 17 (Family: none)	1-10
A	JP 11-271254 A (NGK Spark Plug Co., Ltd.), 05 October, 1999 (05.10.99), Full text; Figs. 1 to 14 (Family: none)	1-10
A	JP 8-15214 A (Robert Bosch GmbH.), 19 January, 1996 (19.01.96), Full text; Fig. 1 & DE 94010070 U & FR 2721764 A & IT 95500433 U	1-10
A	JP 10-332627 A (Unisia Jecs Corp.), 18 December, 1998 (18.12.98), Full text; Figs. 1 to 6 (Family: none)	1-10